## **EAST Search History**

## EAST Search History (Prior Art)

| Ref# | Hits | Search Query  | DBs   | Default<br>Operator | Plurals | Time Stamp          |
|------|------|---|---|---------------------|---------|---------------------|
| L1   | 820  | i@pd<"20040331" and<br>(separator or bipolar<br>plate) with flow channels   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ                 | ON      | 2010/09/29<br>16:51 |
| L2   | 2    | @pd<"20040331" and<br>(separator or bipolar<br>plate) with flow channels<br>with (even\$2 near3<br>distribut\$3)  | US PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ                 | ON      | 2010/09/29<br>16:52 |
| S1   | 0    | ("2003062270").PN.  | US-PGPUB;<br>USPAT; USOCR   | OR                  | OFF     | 2010/03/03<br>17:27 |
| S2   | 1    | ("20030062270").PN.   | US-PGPUB;<br>USPAT; USOCR   | OR                  | OFF     | 2010/03/03<br>17:27 |
| S3   | 69   | @pd<"20040331" and<br>((hydrogen generat\$3<br>device or decomposition<br>cell or hydrogen produc\$4<br>device or "h.sub.2"<br>generat\$3 device or "h.<br>sub.2" produc\$4 device)<br>with fuel cell)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ                 | ON      | 2010/03/03<br>17:39 |
| S4   | 27   | @pd<"20040331" and ((hydrogen generat\$3 device or decomposition cell or hydrogen produc\$4 device or "h. sub.2" generat\$3 device or "h. sub.2" with fuel cell) and ((hydrogen generat\$3 device or decomposition cell or hydrogen generat\$3 device or decomposition cell or hydrogen produc\$4 device or "h. sub.2" generat\$3 device or "h. sub.2" produc\$4 device) with electrolyte or membrane or partition) | US-PGPUB;<br>USPAT;<br>USOOR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ                 | ON      | 2010/03/03<br>17:40 |

| \$5 | 19   | [@pd<"20040331" and ((hydrogen generat\$3 device or decomposition cell or hydrogen produc\$4 device or "h. sub.2" generat\$3 device or "h. sub.2" with fuel cell) and ((hydrogen generat\$3 device or decomposition cell or hydrogen produc\$4 device or "h. sub.2" generat\$3 device or "h. sub.2" generat\$3 device or "h. sub.2" membrane or partition) and (automobile or automobile or automobile or automobile or car or motor or lengine or vehicle) | US PGPUB;<br>USPAT;<br>USCOR; FPES;<br>EPO; JFO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2010/03/03<br>17:43 |
|-----|------|---|---|-----|----|---------------------|
| S6  | 6    | (narayanan near2<br>sekharipuram).in. and<br>(hydrogen generation).ti.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2010/03/03<br>18:09 |
| S7  | 7646 | @pd<"20040331" and<br>(fuel cell with (hydrogen<br>or "h.sub.2") with<br>(evolution or evolv\$3 or<br>produc\$4 or generat\$3))   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2010/03/04<br>12:06 |
| S8  | 3683 | @pd<"20040331" and<br>(fuel cell near4 (hydrogen<br>or "h.sub.2") near4<br>(evolution or evolv\$3 or<br>produc\$4 or generat\$3))   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2010/03/04<br>12:07 |
| S9  | 2772 | @pd<"20040331" and<br>(fuel cell near3 (hydrogen<br>or "h.sub.2") near3<br>(evolution or evolv\$3 or<br>produc\$4 or generat\$3))   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2010/03/04<br>12:09 |
| S10 | 34   | @pd<"20040331" and (fuel cell near3 (hydrogen or "h.sub.2") near3 (evolution or evolv§3 or produc§4 or generat§3)) and (fuel cell with hydrogen generating device or hydrogen producing device)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2010/03/04<br>12:10 |

| S11 | 946  | @pd<"20040331" and<br>(fuel cell near3 (hydrogen<br>or "h.sub.2") near3<br>(evolution or evolv\$3 or<br>produc\$4 or generat\$3)).<br>ab.   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ |  | 2010/03/04<br>12:11 |
|-----|------|---|---|-----|--|---------------------|
| S12 | 766  | @pd<"20040331" and<br>(fuel cell near3 (hydrogen<br>or "h.sub.2") near3<br>(evolution or evolv\$3 or<br>produc\$4 or generat\$3)<br>not reformer).ab.                                     | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | NON N  | 2010/03/04<br>12:12 |
| S13 | 578  | @pd<"20040331" and<br>(fuel cell near3 (hydrogen<br>or "h.sub.2") near3<br>(evolution or evolv\$3 or<br>produc\$4 or generat\$3)<br>not (reformer or<br>reforming)).ab.                   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON   | 2010/03/04<br>12:12 |
| S14 | 592  | @pd<"20040331" and<br>(fuel cell near3 (hydrogen<br>or "h.sub.2") near3<br>(evolution or evolv\$3 or<br>produc\$4 or generat\$3)<br>not (reformer or<br>reforming not generator)).<br>ab. | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON   | 2010/03/04<br>12:13 |
| S15 | 1668 | @pd<"20040331" and<br>(electrolysis with fuel cell)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON   | 2010/03/04<br>14:22 |
| S16 | 6    | @pd<"20040331" and<br>(electrolysis with fuel cell<br>with hydrogen<br>production)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | William Willia | 2010/03/04<br>14:22 |
| S17 | 151  | @pd<"20040331" and<br>(electrolysis with fuel cell<br>with (hydrogen or "h.<br>sub.2") near2 (product\$3<br>or generat\$3 or evolution<br>or evolv\$3))                                   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON   | 2010/03/04<br>14:24 |
| S18 | 0    | @pd<"20040331" and<br>(fuel cell with interal<br>hydrogen near2<br>(production))  | US-PCPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON   | 2010/03/04<br>14:32 |

| S19         | 0    | @pd<"20040331" and (fuel cell with interal near3 hydrogen near2 (product\$3 or generat\$3 or evolution or evolv\$3))                     | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ |  | 2010/03/04<br>14:32 |
|-------------|------|--|---|-----|--|---------------------|
| S20         | 10   | @pd<"20040331" and<br>(fuel cell with internal<br>near3 hydrogen near2<br>(product\$3 or generat\$3<br>or evolution or evolv\$3))        | US PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON   | 2010/03/04<br>14:33 |
| S21         | 738  | @pd<"20040331" and 429/19.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON   | 2010/03/04<br>15:13 |
| S22         | 51   | @pd<"20040331" and<br>(molten carbonate fuel<br>cell) same (vehicle or<br>automobile or car)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | STATE OF THE PROPERTY OF THE P | 2010/03/04<br>15:38 |
| S23         | 12   | @pd<"20040331" and<br>(molten carbonate fuel<br>cell) with (vehicle or<br>automobile or car)   | US PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON   | 2010/03/04<br>15:38 |
| \$24        | 1057 | @pd<"20040331" and 429/17.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON   | 2010/03/04<br>16:48 |
| <b>S</b> 25 | 27   | 205/637.ccls. and<br>(((generat\$3 near2<br>hydrogen) same ((acetic<br>adj acid) or ether or<br>methanol or ethanol or<br>formaldehyde)) | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON   | 2010/03/10<br>19:43 |
| S27         | 860  | 423/651.ccls.  | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON   | 2010/03/11<br>17:28 |
| S28         | 2704 | (electrolyzer or<br>electrolysis cell) same<br>(cathode same oxidiz\$3 or<br>oxygen)   | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON   | 2010/03/12<br>13:24 |

| S29 | 422 | (electrolyzer or<br>electrolysis cell) with<br>(cathode with (oxidiz\$3 or<br>oxygen))   | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON   | 2010/03/12<br>13:24 |
|-----|-----|--|---|-----|--|---------------------|
| S30 | 97  | @pd<"20040331" and<br>(electric car or electric<br>automobile) and<br>(hydrogen near3 generat<br>\$3) and fuel cell  | US PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | Mannennennennennen   | 2010/03/26<br>16:48 |
| S31 | 76  | @pd<"20040331" and<br>(electric car or electric<br>automobile) and<br>(((hydrogen near3 generat<br>\$3) or electrolyzer) same<br>fuel cell)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | William Constitution of the Constitution of th | 2010/03/26<br>16:49 |
| S32 | 33  | @pd<"20040331" and<br>(electric car or electric<br>automobile) and<br>(((hydrogen near3 generat<br>\$3) or electrolyzer) same<br>fuel cell) and (motor with<br>fuel cell)                  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON   | 2010/03/26<br>16:50 |
| S33 | 14  | @pd<"20040331" and<br>(electric car or electric<br>automobile) and<br>(((hydrogen near3 generat<br>\$3) or electrolyzer) same<br>fuel cell) and (motor with<br>fuel cell with electricity) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON   | 2010/03/26<br>16:51 |
| S34 | 4   | \$3) and electrolyzer)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON   | 2010/03/26<br>16:53 |
| S35 | 4   | \$3) and electrolyzer)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON   | 2010/03/26<br>17:01 |

| \$37 | 4  | @pd<"20040331" and (electric car or electric automobile or (automobile with electric) or (car with electric) or ((electric with vehicle) and (car or automobile))) and ((((hydrogen near3 generat \$3) and electrolyzer) same fuel cell) and (motor with fuel cell with electricity) not reformer | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON    | 2010/03/26<br>17:02 |
|------|----|---|---|-----|-------|---------------------|
| S38  | 4  | @pd<"20040331" and (electric car or electric automobile or (automobile with electric) or (car with electric) or ((electric with vehicle) and (car or automobile))) and (((hydrogen with electrolyzer) same fuel cell) and (motor with fuel cell with electricity) not reformer                    | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON ON | 2010/03/26<br>17:03 |
| S39  | 4  | @pd<"20040331" and (electric car or electric automobile or (automobile with electric) or (car with electric) or (electric with vehicle) and (car or automobile))) and (electrolyzer with hydrogen with (suppl\$3 or generat\$3 or produc\$4) with fuel cell) and (fuel cell same motor)           | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPC; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON    | 2010/03/26<br>17:04 |
| S40  | 19 | @pd<"20040331" and<br>(electrolyzer with<br>hydrogen with (suppl\$3 or<br>generat\$3 or produc\$4)<br>with fuel cell) and (fuel<br>cell same motor)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWBNT;<br>IBM_TDB | ADJ | ON    | 2010/03/26<br>17:04 |
| S41  | 4  | @pd<"20040331" and (electric car or electric automobile or (automobile with electric)) and ((((hydrogen near3 generat \$3) and electrolyzer) same fuel cell) and (motor with fuel cell with electricity) not reformer   | US PCPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON    | 2010/03/27<br>13:44 |

| S42 | 93  | @pd<"20040331" and (erdle).in.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | 000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>00 | 2010/03/27<br>13:45 |
|-----|-----|---|---|-----|---|---------------------|
| S43 | 12  | @pd<"20040331" and<br>(erdle).in. and fuel cell   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | www.mmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmm                            | 2010/03/27<br>13:46 |
| S44 | 1   | @pd<"20040331" and<br>(erdle).in. and fuel cell<br>and (hydrogen with<br>generat\$3) and motor and<br>fuel cell and electrolyzer  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | 000   | 2010/03/27<br>13:46 |
| S45 | 63  | @pd<"20040331" and<br>(electrolysis cell or<br>electrolyzer) same<br>(hydrogen with (generat<br>\$3 or suppl\$3 or form or<br>make or create) same fuel<br>cell) and (fuel cell same<br>(motor or engine))  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | OC  | 2010/03/27<br>13:49 |
| S46 | 26  | @pd<"20040331" and (electrolysis cell or electrolyzer) same (hydrogen with (generat \$3 or suppl\$3 or form or make or create)) same fuel cell) and (fuel cell same (motor or engine)) and ((electric with (vehicle or automobile or car or truck)) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2010/03/27<br>13:52 |
| S47 | 315 | (recycl\$3 with exhaust with fuel cell)   | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON  | 2010/03/27<br>15:05 |
| S48 | 96  | (recycl\$3 with exhaust<br>with fuel cell) and<br>@pd<"20040331"  | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON  | 2010/03/27<br>15:05 |
| S49 | 21  | @pd<"20040331" and<br>((hydrogen peroxide or "h.<br>sub.2.o.sub.2") same<br>(sodium hydroxide or<br>nach or sodium sulfate or<br>brine or chloralkali or hcl<br>or hbr or methanol) same<br>(electrolysis cell))                                    | US-PGPUB;<br>USPAT; USOCR   | ADJ |   | 2010/03/27<br>15:17 |

| S50         | 1  | ("3992271").PN.   | USPAT; USOCR              | OR  | OFF | 2010/03/27<br>15:26 |
|-------------|----|---|---------------------------|-----|-----|---------------------|
| S51         | 1  | ("4039409"). PN.  | USPAT; USOCR              | OR  | OFF | 2010/03/27<br>15:26 |
| S52         | 1  | ("4311569").PN.   | USPAT; USOCR              | OR  | OFF | 2010/03/27<br>15:26 |
| S53         | 2  | (S50 or S51 or S52) and (platinum with ruthenium with alloy)  | US-PGPUB;<br>USPAT; USOCR | ADJ | ON  | 2010/03/27<br>15:27 |
| S54         | 4  | @pd<"20040331" and<br>((electrolysis cell or<br>electrolyzer) with (carbon<br>dioxide) with (absorb\$4))  | US-PGPUB;<br>USPAT; USOCR | ADJ | ON  | 2010/03/27<br>15:39 |
| <b>S</b> 55 | 10 | @pd<"20040331" and<br>((electrolysis cell or<br>electrolyzer) with (carbon<br>dixide) with (absorb\$4 or<br>filter or filtration or<br>collect))  | US-PGPUB;<br>USPAT; USOCR | ADJ | ON  | 2010/03/27<br>15:40 |
| <b>S</b> 56 | 49 | @pd<"20040331" and<br>((electrolysis cell or<br>electrolyzer) same<br>(carbon dioxide) same<br>(absorb\$4 or filter or<br>filtration or collect))   | US-PGPUB;<br>USPAT; USOCR | ADJ | ON  | 2010/03/27<br>15:42 |
| S57         | 39 | @pd<"20040331" and<br>((electrolysis cell or<br>electrolysis cell or<br>electrolyzer) same<br>(carbon dioxide) same<br>(absorb\$4 or filter or<br>filtration or collect)) not<br>S55      | US-PGPUB;<br>USPAT; USOCR | ADJ | ON  | 2010/03/27<br>15:42 |
| S58         | 1  | ("20030226763").PN.   | US-PGPUB;<br>USPAT; USOCR | OR  | OFF | 2010/03/27<br>15:51 |
| <b>S</b> 59 | 1  | S58 and (carbon dioxide or "CO.sub.2")  | US-PGPUB;<br>USPAT; USOCR | ADJ | ON  | 2010/03/27<br>15:51 |
| S60         | 9  | @pd<"20040331" and<br>((electrolyzer or<br>electrolysis cell) same<br>((vary or varies or chang<br>\$3 or alter\$5 or<br>modification or modif\$4)<br>near2 voltage) same<br>((hydrogen)) | US-PGPUB;<br>USPAT; USOCR | ADJ | ON  | 2010/03/27<br>16:00 |

| S61         | 36  | @pd<"20040331" and<br>((electrolyzer or<br>electrolysis cell) same<br>((vary or varies or chang<br>\$3 or alter\$5 or<br>modification or modif\$4)<br>with voltage) same<br>(hydrogen)) | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2010/03/27<br>16:03 |
|-------------|-----|---|---------------------------|-----|----|---------------------|
| S62         | 0   | @pd<"20040331" and<br>((electrolyzer or<br>electrolysis cell) same<br>((vary or varies or chang<br>\$3 or alterion or modification<br>with voltage) same<br>(hydrogen near3<br>amount)) | US-PCPUB;<br>USPAT; USOCR | ADJ | ON | 2010/03/27<br>16:03 |
| S63         | 92  | @pd<"20040331" and<br>((electrolyzer or<br>electrolysis cell) same<br>(hydrogen) same<br>concentration same<br>volume)  | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2010/03/27<br>16:20 |
| S64         | 8   | @pd<"20040331" and<br>((electrolyzer or<br>electrolysis cell) same<br>(hydrogen) same<br>concentration same<br>volume same fuel)  | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2010/03/27<br>16:20 |
| <b>S</b> 65 | 572 | @pd<"20040331" and<br>((electrolyzer or<br>electrolysis cell) same<br>(hydrogen) same<br>(concentration or<br>volume))  | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2010/03/27<br>16:26 |
| <b>S</b> 66 | 21  | @pd<"20040331" and<br>((electrolyzer or<br>electrolysis cell) same<br>(hydrogen near3 amount)<br>same (concentration or<br>volume))   | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2010/03/27<br>16:26 |

## EAST Search History (Interference)

## 9/29/2010 6:29:38 PM

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<sup>&</sup>lt; This search history is empty>